	Application No.	Applicant(s)
Notice of Allowability	09/551,466	TAKAHASHI, SADAO
	Examiner	Art Unit
	Mehrdad Dastouri	2623
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3:	pears on the cover sheet with S (OR REMAINS) CLOSED in t 5) or other appropriate commun RIGHTS. This application is sul	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to <u>October 13, 2004</u> .		1
2. \boxtimes The allowed claim(s) is/are <u>1-24, 27-52 and 55-68 (Renull</u>	<u>ımbered 1-64)</u> .	
3. \boxtimes The drawings filed on <u>April 17, 2004</u> are accepted by the	Examiner.	
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents ha 2. Certified copies of the priority documents ha 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi		
6. CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examined Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 7. DEPOSIT OF and/or INFORMATION about the department of the part of the	erson's Patent Drawing Review (er's Amendment / Comment or in 1.84(c)) should be written on the n the header according to 37 CFR posit of BIOLOGICAL MATER	n the Office action of drawings in the front (not the back) of 1.121(d). RIAL must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date October 15, 2004) 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Sur Paper No./M 8/08), 7. Examiner's A	lail Date mendment/Comment tatement of Reasons for Allowance

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed September 13, 2004, has been entered and made of record.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

The instant invention recites binarization apparatus comprising a block division unit that divides a multi-valued image into blocks and a binarization threshold value setting unit that sets a binarization threshold value to be used when binarizing the multivalued image. A low luminance value removal unit inputs luminance values of each pixel forming the selected object blocks from among luminance values output by luminance value output unit, removes luminance values that are lower than the low luminance threshold value set by low luminance threshold value setting unit, and outputs only those luminance values which exceed the low luminance threshold value. A mean luminance value calculator calculates mean luminance values using luminance values from which luminance values that do not reach the low luminance threshold value in a block have been removed. The low luminance threshold value setting unit sets the low luminance threshold value based on mean luminance values of blocks adjacent to the object blocks, and the binarization threshold value setting unit sets the binarization threshold values of the object blocks based on mean luminance values of the blocks.

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The instant invention, in other embodiments, further recites an interpolation block setting unit for setting interpolation blocks which cover pixels extending over two or more adjacent object blocks from among object blocks selected by the object block selection unit.

The features identified, in combination, are neither discussed nor suggested by the prior arts of record.

- 3. Claims 1-24, 27-52 and 55-68 are allowed.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mehrdad Dastouri whose telephone number is (703) 305-2438. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (703) 308-6604. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Mehrdad Dastouri Primary Examiner Art Unit 2623 November 17, 2004



Mehrdad Daston